

Title (en)

Procedure and device for interference compensation of an optical sensor

Title (de)

Verfahren und Vorrichtung zur Störgrößenkompensation eines optischen Sensors

Title (fr)

Procédé et appareil de compensation des parasites d'un capteur optique

Publication

EP 1284425 B1 20070530 (DE)

Application

EP 02017487 A 20020805

Priority

DE 10140482 A 20010817

Abstract (en)

[origin: EP1284425A2] Method for compensation for the effects of interference on an optical sensor (50). The latter is sensitive to a measurement value (M), to the wavelength (λ) of an incident light signal (S1) and an interference value (T). The light signal passes through a compensation element (40) that together with an optical sensor forms a common interference value influence region (60). In the compensation element, the interference value changes the light signal wavelength such that in the optical sensor its influence restores its original value. An Independent claim is made for a device for compensation of the effects of interference on an optical current, voltage or magnetic field measurement sensor.

IPC 8 full level

G01R 15/24 (2006.01); **G01R 33/032** (2006.01); **G01R 1/07** (2006.01); **G01R 29/08** (2006.01); **G02F 1/03** (2006.01); **G02F 1/061** (2006.01); **G02F 1/065** (2006.01)

CPC (source: EP US)

G01R 15/24 (2013.01 - EP US); **G01R 15/242** (2013.01 - EP US); **G01R 15/246** (2013.01 - EP US)

Cited by

WO2011116899A1; US8810132B2

Designated contracting state (EPC)

DE FR GB IT

DOCDB simple family (publication)

EP 1284425 A2 20030219; **EP 1284425 A3 20040714**; **EP 1284425 B1 20070530**; CN 1250974 C 20060412; CN 1407343 A 20030402; DE 10140482 A1 20030313; DE 10140482 B4 20081113; DE 50210224 D1 20070712; JP 2003084014 A 20030319; JP 4472239 B2 20100602; US 2003034768 A1 20030220; US 7064315 B2 20060620

DOCDB simple family (application)

EP 02017487 A 20020805; CN 02130596 A 20020819; DE 10140482 A 20010817; DE 50210224 T 20020805; JP 2002237425 A 20020816; US 22278602 A 20020819